

SYNCHRONIZING ESTRUS AND OVULATION IN POSTPARTUM SUCKLED BEEF COWS USING THE CO-SYNCH + CIDR PROTOCOL WITH FIXED-TIME AI

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Research in our laboratory has focused on the development of protocols to effectively synchronize estrus and ovulation in postpartum beef cows to facilitate-fixed time AI. Over the past 2 years we have compiled data from various locations involving field trials and/or demonstrations using the protocol shown in Figure 1. CO-Synch + CIDR treated cows were injected with GnRH and equipped with an EAZI-BREED™ Controlled Internal Drug Release® insert (CIDR) and PG was injected and CIDR were removed 7 d later. Artificial insemination was performed at 66 h after PG administration for cows assigned to the CO-Synch + CIDR treatment (Figure 1). All cows were injected with GnRH at the time of insemination. Table 1 provides a summary of results from these various locations using this protocol in conjunction with fixed-time AI.

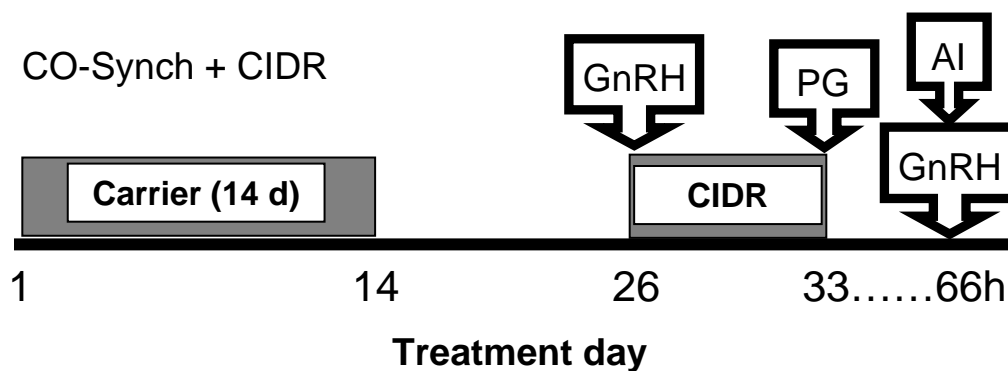


Figure 1. Treatment schedule for cows assigned to the Co-Synch + CIDR protocol. From Schafer (2005).

The CO-Synch + CIDR protocol may have broader application in comparison to MGA based protocols due to shorter treatment duration (< 10 d vs. 36 d), especially in herds with more widespread calving periods. Successful results using this protocol requires proper application of each step of the treatment. The results reported here present beef producers a choice and means for expediting genetic improvement and reproductive management.

Table 1. CO-Synch + CIDR Results with Fixed-Time AI @ 66 hours after CIDR removal and PG			
Herd (year)	No. Pregnant	Total Number	Percentage
1 (F03)	41	51	80
2 (S04)	67	104	64
3 (S04)	56	78	72
4 (S04)*	29	43	67
5 (S04)	52	96	63
6 (S04)	60	90	67
7 (F04)	31	48	65
8 (F04)	87	143	61
9 (F04)	61	100	61
10 (F04)	44	69	63
11 (F04)	68	111	61
12 (F04)	47	60	78
13 (F05)	143	224	64
14 (F05)	62	100	62
15 (F05)*	66	101	65
16 (F05)	106	164	65
Total	1020	1582	64
*MU Greenley Farm			